APPENDIX A Pending Claims

13. A process of obtaining photochromic latex comprising:

preparing a mixture comprising at least one organic monomer Z, which monomer comprises at least one C=C group and is polymerizable by a radical process, at least one organic photochromic compound, at least one surfactant, water, and a polymerization primer;

forming a miniemulsion of the mixture, the miniemulsion comprising an organic phase dispersed in an aqueous phase;

polymerizing of the reaction mixture, and recovering photochromic latex.

- 14. The method of claim 13, wherein the polymerization primer is mixed with the other components of the mixture before formation of the miniemulsion.
- 15. The method of claim 14, wherein additional polymerization primer is added to the mixture after formation of the miniemulsion
- 16. The method of claim 13, wherein the polymerization primer is mixed with the other components of the mixture after formation of the miniemulsion.
- 17. The process of claim 13, further comprising degassing miniemulsion before the addition of the primer.
- 18. The method of claim 13, wherein the polymerization primer is added to the mixture during the formation of the miniemulsion.
- 19. The method of claim 13, wherein the organic phase is dispersed in the aqueous phase in the form of droplets having a diameter of 50 to 500 nm,

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- 20. The method of claim 19, wherein the organic phase is dispersed in the aqueous phase in the form of droplets having a diameter of 50 to 300 nm.
- 21. The process of claim 13, wherein the organic monomer Z is an alkyl (meth) acrylate.
- 22. The process of claim 13, wherein the photochromic compound is a chromene or spirooxazine.
- 23. The process of claim 13, wherein the Z monomer is an alkyl methacrylate and the photochromic compound is a spirooxazine.
- 24. The process of claim 13, wherein the mixture further comprises at least one stabilization agent.
- 25. The process of claim 24, wherein the stabilization agent is an n-alkane, a halogenated n-alkane, a fatty alcohol, or an ester of a fatty alcohol.
- 26. The process of claim 25, wherein the stabilization agent is hexadecane, cetyl alcohol, or stearyl methacrylate.
- 27. The process of claim 13, wherein the polymerization primer is soluble in the aqueous phase or in the organic phase.
- 28. The process of claim 27, wherein the polymerization primer is azobisisobutyronitrile or 2,2'-azobis (2-amidinopropane) dihydrochloride or sodium persulfate.
- 29. The process of claim 13, wherein formation of the miniemulsion comprises passing the mixture through microfluidiser.
- 30. A photochromic latex prepared by a process comprising:

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preparing a mixture comprising at least one organic monomer Z, which monomer comprises at least one C=C group and is polymerizable by a radical process, at least one organic photochromic compound, at least one surfactant, water, and a polymerization primer;

forming a miniemulsion of the mixture, the miniemulsion comprising an organic phase dispersed in an aqueous phase;

polymerizing of the reaction mixture, and recovering photochromic latex.